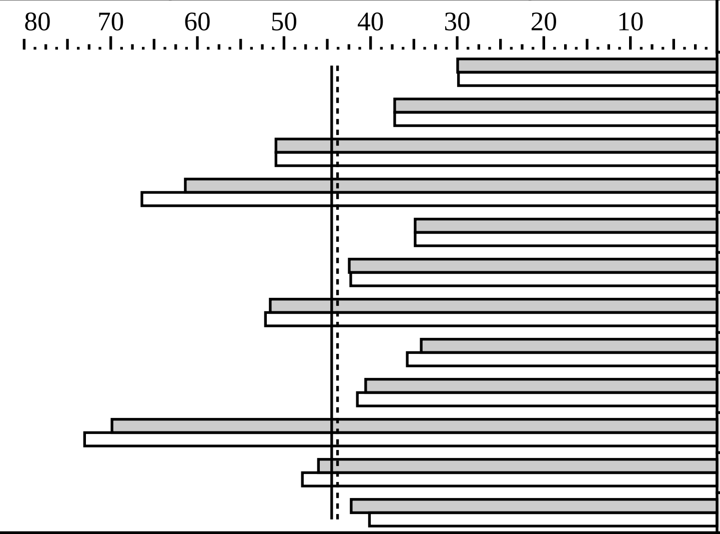
CINT2000 Result

spec

Bull
Escala PL250R+ (2100 MHz, 2 CPU)

SPECint_rate2000 = 44.5
SPECint_rate_base2000 = 43.8

SPEC license #: 20	Tested by: Bull	Test date: Feb-2007	Hardware Avail: Feb-2006	Software Avail: Dec-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	217	29.9	4	218	29.9
175.vpr	4	175	37.2	4	175	37.2
176.gcc	4	100	50.9	4	100	50.9
181.mcf	4	136	61.4	2	62.9	66.4
186.crafty	4	133	34.9	4	133	34.9
197.parser	4	197	42.5	4	197	42.3
252.eon	4	117	51.6	4	116	52.1
253.perlbmk	4	245	34.2	4	234	35.8
254.gap	4	126	40.6	4	123	41.5
255.vortex	4	126	69.9	4	121	73.0
256.bzip2	4	151	46.0	4	145	47.9
300.twolf	4	330	42.2	4	347	40.1

Hardware

CPU:	POWER5+
CPU MHz:	2100
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip (SMT on)
CPU(s) orderable:	1 chip
Parallel:	no
Primary Cache:	64KBI+32KBD (on chip)per core
Secondary Cache:	1920KB unified (on chip) per chip
L3 Cache:	36MB unified off chip per chip
Other Cache:	None
Memory:	32 GB (8x4 GBB)
Disk Subsystem:	1x73GB SCSI, 15K RPM
Other Hardware:	None

Software

Operating System:	AIX 5L V5.3
Compiler:	XL C/C++ Enterprise Edition Version 8.0 for AIX with the December 2006 PTF XL Fortran Enterprise Edition Version 10.1 for AIX with the November 2006 PTF
File System:	AIX/JFS2
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  176.gcc:      -ma -DHOST_WORDS_BIG_ENDIAN
  186.crafty:   -DAIX
  253.perlbmk:  -DSPEC_CPU2000_AIX
  254.gap:      -DSYS_IS_BSD -DSYS_STRING_H
                -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  300.twolf:    -DHAVE_SIGNED_CHAR

Base Optimization Flags:
  C:     -qpdf1/pdf2
         -O5 -blpdata -D_ILS_MACROS
  C++:   -qpdf1/pdf2
         -O4 -qalign=natural

Peak Optimization Flags
  164.gzip:     -qpdf1/pdf2
                -O4 -qfdpr -blpdata
                fdpr -q -O3
  175.vpr:      basepeak=1
  176.gcc:      basepeak=1
```

Notes/Tuning Information (Continued)

```
    181.mcf:      users=2
                  -qpdf1/pdf2
                  -O5 -blpdata -qalign=natural -qhot=arraypad -qfdpr -Q -qmaxmem=-1
                  fdpr -q -O3
    186.crafty:   basepeak=1
    197.parser:   -qpdf1/pdf2
                  -O4 -qfdpr -D_ILS_MACROS -blpdata
                  fdpr -q -O3
    252.eon:      -qpdf1/pdf2
                  -O4 -qarch=pwr4 -qtune=pwr4 -qalign=natural
    253.perlbmk:  -qpdf1/pdf2
                  -O4 -qarch=pwr4 -qtune=pwr4 -qalign=natural -blpdata -lhmu
    254.gap:      -qpdf1/pdf2
                  -O4 -qarch=pwr4 -qtune=pwr4 -qalign=natural -blpdata
    255.vortex:   -qpdf1/pdf2
                  -O4 -qfdpr -lhmu -blpdata
                  fdpr -q -O3
    256.bzip2:    -qpdf1/pdf2
                  -O5 -qfdpr -blpdata
                  fdpr -q -O3
    300.twolf:    -O5 -qfdpr -blpdata
                  fdpr -q -O3
```

The installed OS level is AIX 5L for POWER version 5.3 with the 5300-04 Recommended Maintenence package.

```
 SMT:  Acronym for "Simultaneous Multi-Threading". A processor technology that allows
       the simultaneous execution of multiple thread contexts within a single processor
       core. (Enabled by default)
 DCM:  Acronym for "Dual-Chip Module" (one dual-core processor chip + one L3-cache chip)
 SUT:  Acronym for "System Under Test"

 Extended C:     IBM XL C for AIX invoked as cc
 ANSI C89:       IBM XL C for AIX invoked as xlc
 C++:            IBM XL C for AIX invoked as xlC
 Fortran 77:     IBM XL Fortran for AIX invoked as xlf90 unless explicitly reassigned
 Fortran 90:     IBM XL Fortran for AIX invoked as xlf

 ulimits set to unlimited.
 Large page mode was set as follows:
     vmo -r -o lgpg_regions=800 -o lgpg_size=16777216
     bosboot -aD
     shutdown -rF

 The following config-file entry was used to assign each benchmark process to a core:
 submit = let "MYCPU=2*$SPECUSERNUM"; if (("$MYCPU > 3"))
then let "MYCPU-=3"; fi; bindprocessor $$ $MYCPU; $command
 The "bindprocessor" AIX command binds a process to a CPU core.
```